| <br> | Claims |  |
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|      |        |  |

| Applicat | tion/Control | No. |
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09/622,662

Examiner

Sy D. Luu

Applicant(s)/Patent under Reexamination

SHIN ET AL.

Art Unit

2174

| <b>√</b> | Rejected |
|----------|----------|
| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   |                                |

Restricted

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|          | -1       | Т                                   |  |  |  | D='                |              |              |          |          |          | 1-:      |                |          |         |  | 2=1      |                 |            |          | $\neg$   | г | 01             |            |   |          |          |          | \        | _            |               |               |                |
|----------|----------|-------------------------------------|--|--|--|--------------------|--------------|--------------|----------|----------|----------|----------|----------------|----------|---------|--|----------|-----------------|------------|----------|----------|---|----------------|------------|---|----------|----------|----------|----------|--------------|---------------|---------------|----------------|
| Cla      | aim      | <u> </u>                            | Г  | τ  |  | Date               | e            |              |          | $\dashv$ | C        | laim     | -              |          | _       | _ [  | Date     | 3               |            |          | $\dashv$ | ŀ | Cla            | aim        |   |          |          |          | ate      | <del>}</del> |               |               | _              |
| Final    | Original | 11/28/05                            |  |  |  |                    |              |              |          |          | Final    | Criticia |                |          |         |  |          |                 |            |          |          |   | Final          | Original   |   |          |          |          |          |              |               |               |                |
| -        | 1        | ✓                                   |  |  |  |                    |              |              | П        |          |          | 5        | 1              |          | 1       |  |          |                 |            |          | ヿ        |   |                | 101        |   |          |          |          |          |              | $\neg$        |               | Г              |
|          | 2        | Ħ                                   |  |  |  |                    |              | Г            |          |          |          | 5        | 2              | _        | ╅       | _  |          | П               |            | ヿ        | $\neg$   | r |                | 102        |   |          |          |          |          |              |               | $\overline{}$ | Г              |
|          | 3        | П                                   |  | Г  |  | ļ                  |              | 1            | П        |          |          | 5        | 3              |          | Т       |  |          |                 |            |          | П        |   |                | 103        |   |          |          |          |          |              |               |               |                |
|          | 4        | √                                   |  |  |  |                    |              |              |          |          |          | 5        |                |          |         |  |          |                 |            |          |          |   |                | 104        |   |          |          |          |          |              |               |               |                |
|          | 5        | X                                   |  |  |  |                    |              |              |          |          |          | 5        |                |          |         | T  |          |                 |            |          | $\Box$   |   |                | 105        |   |          |          |          |          |              |               |               |                |
|          | 6        | Х                                   |  |  |  |                    |              |              |          |          |          | 5        |                |          |         |  |          |                 |            |          |          |   |                | 106        |   |          |          |          |          |              |               |               |                |
|          | 7        | √                                   |  |  |  |                    |              |              |          |          |          | 5        | 7              |          |         |  |          |                 |            |          |          |   |                | 107        |   |          |          |          |          |              |               |               |                |
|          | 8        | ✓                                   |  |  |  |                    |              |              |          |          |          | 5        |                |          |         |  |          |                 |            |          |          |   |                | 108        |   |          |          |          |          |              |               |               |                |
|          | 9        |                                     | 1  | <u> </u>   | <u> </u>   | <u> </u>           | L            | <u> </u>     | Ш        |          |          | 5        |                |          | $\perp$ |  | _        | $\Box$          | $\Box$     |          | _        | L |                | 109        |   |          |          | Щ        |          |              | $\Box$        |               | L              |
|          | 10       |                                     |  |  | _  | <u> </u>           |              |              | Ш        | _        |          | 6        |                | _        | _       | <u> </u>   | _        |                 | ᆜ          | _        | _        | L |                | 110        |   |          | L        |          |          |              | ightharpoonup |               | L              |
|          | 11       | <u> </u>                            | _  | ļ.,  | ļ  |                    | <u> </u>     | L.           | Ш        |          | ļ        | 6        |                |          | _       | <u> </u>   |          |                 | _          | $\perp$  | _        | L | $\blacksquare$ | 111        |   |          | _        | _        |          |              |               |               | L              |
|          | 12       | <u> </u>                            | <u> </u>   | <u> </u>   | <u> </u>   | 1_                 | <u> </u>     | <u> </u>     | Ш        | _        |          | 6        |                | $\perp$  | _       | 1  |          | Ш               | ļ          | _        | _        | L |                | 112        |   | Ш        | <u> </u> | <u> </u> |          |              |               |               | L              |
|          | 13       | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>   | <u> </u>   | lacksquare                                       | ऻ_                 | $\vdash$     | _            | Ш        | _        | <u> </u> | 6        |                | 4        | ╄       | <u> </u>   | _        |                 |            | _        | _        | L |                | 113        |   | L.       | L_       | <u> </u> |          |              | _             |               | ot             |
|          | 14       | ⊨                                   |  | ├  |  | Ͱ                  | $\vdash$     | <u> </u>     | Н        | _        |          | 6        | 7              | +        | +       | ـــ  | <u> </u> | $\vdash \dashv$ |            |          | $\perp$  |   |                | 114        |   |          | <u> </u> | <u> </u> |          | L            | _             |               | $\vdash$       |
| ļ        | 15       | <u> </u>                            | -  | <del> </del>                                     | <b> </b>   | ├                  | <del> </del> | <u> </u>     | Н        | 4        | _        | 6        |                | +        | +       | +  | _        | Н               | _          | _        | _        | - |                | 115        |   | $\vdash$ | $\vdash$ | <u> </u> |          |              |               |               | $\vdash$       |
|          | 16<br>17 | $\vdash$                            | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$           | $\vdash$     | $\vdash$     | Н        | $\dashv$ | _        | 6        |                |          | +       | +  | -        | $\vdash$        | _          | _        | -        | - |                | 116        |   |          | ├-       | <u> </u> |          |              | _             |               | $\vdash$       |
|          |          | ┞                                   | -  | ļ  |  | -                  | ├            | <del> </del> | -        |          | -        |          |                | +        | +       | 1  |          | -               | $\dashv$   | $\dashv$ | $\dashv$ | - |                | 117        |   |          | <u> </u> |          |          |              | $\dashv$      | _             | <u> </u>       |
|          | 18<br>19 | ⊢                                   | H  | -  | ├  | ┢                  | ┝            | ┝            | Н        | $\dashv$ |          | 6<br>6   |                |          | -       | 1  |          |                 | _          | _        | _        | F |                | 118        |   | <u> </u> | <u> </u> | _        |          |              | $\dashv$      |               | <del>  -</del> |
|          | 20       | -                                   | -  | -  | -  | -                  | ├            | ⊢            | Н        | $\dashv$ | -        | 7        |                | +        | +       | -  |          | $\vdash$        |            | $\dashv$ | $\dashv$ | - |                | 119        | _ | H        | -        |          |          |              | $\dashv$      |               | ├-             |
|          | 21       |                                     | -  | -  | ├  | ├                  | ╁─           | ├            | Н        |          | -        | 7        |                | +        | +       | ╁  | -        |                 |            | -        | $\dashv$ | - |                | 120<br>121 |   | $\vdash$ | $\vdash$ | $\vdash$ |          |              | $\dashv$      |               | ⊢              |
|          | 22       | -                                   | ├  | -  | ⊢  | ╁                  | ┢            | ├            | $\vdash$ | $\dashv$ | -        | 7        |                | +        | ╁       | ╁  | -        | $\vdash$        |            | -+       | $\dashv$ | ⊢ |                | 122        |   | H        | ⊢        | H        |          |              |               |               | ⊢              |
|          | 23       |                                     |  | ╁  | ╁  | $\vdash$           | ╁            | $\vdash$     | Н        | $\dashv$ |          | 7        |                |          | ╁       | +  |          | $\vdash$        | $\dashv$   | $\dashv$ | $\dashv$ | ├ |                | 123        |   | -        | -        | _        |          |              | -             |               | ⊢              |
|          | 24       | -                                   | -  | <del> </del>                                     | -  | ╁╾                 | ┢            | ┢            | Н        | $\dashv$ |          | 7        |                | +        | +       | +  | -        | -               |            | -+       | $\dashv$ | - |                | 124        |   | $\vdash$ | $\vdash$ |          |          | _            | $\dashv$      | _             | ┢─             |
|          | 25       | -                                   | $\vdash$   | <del>                                     </del> | <del>                                     </del> | ╁                  | ┼            | ┢            | Н        | ╡        | -        | 7        |                |          | +       | ╁  | $\vdash$ | $\vdash$        | $\dashv$   | -        | $\dashv$ | - | -              | 125        |   | -        | ┝        |          | $\vdash$ |              | $\dashv$      | _             | -              |
|          | 26       | -                                   | -  | ١.   | <del> </del>                                     | +                  | $\vdash$     | ╁─           |          | -        | -        | 7        | <del>.</del> + | +        | +       | +  | -        | -               | $\dashv$   | $\dashv$ | $\dashv$ | - |                | 126        | _ | -        | ┝        | ┝        |          |              |               | _             | ⊢              |
|          | 27       | -                                   | -  | -  | <del>                                     </del> | ╁                  | $\vdash$     | $\vdash$     | Н        | -        | -        | 7        |                | +        | ╁╌      | +-   | -        | $\dashv$        | $\dashv$   | $\dashv$ | $\dashv$ | - |                | 127        |   | _        | $\vdash$ |          | $\vdash$ |              | $\dashv$      | $\vdash$      | <del> </del>   |
|          | 28       | -                                   | -  | $\vdash$   | <del>                                     </del> | $\vdash$           | $\vdash$     | $\vdash$     | Н        | $\dashv$ |          | 17       |                | +        | ╁       | +-   |          | $\vdash$        |            |          | $\dashv$ | ┝ |                | 128        |   | H        | ┢        | $\vdash$ | $\vdash$ | _            | $\dashv$      |               | $\vdash$       |
| -        | 29       |                                     | _  | <del>                                     </del> | -  | $\vdash$           | $\vdash$     |              | 1        |          |          | 17       |                | +        | +       | +  |          | Н               | $\dashv$   | $\dashv$ | $\dashv$ | ŀ |                | 129        |   |          |          | -        |          | _            |               |               | $\vdash$       |
| -        | 30       | ┝                                   | 1  | <u> </u>   | <u> </u>   | H                  | ┢            |              | Н        | $\neg$   |          | 8        |                | +        | +       | +  |          |                 | _          | $\dashv$ | $\dashv$ | ┢ |                | 130        |   |          | $\vdash$ | $\vdash$ |          |              | $\dashv$      |               | $\vdash$       |
|          | 31       |                                     | <del>                                     </del> | $\vdash$   | $\vdash$   | $\vdash$           | _            | _            | Н        | $\dashv$ |          | 8        |                |          | +       | $\vdash$   |          |                 | _          | $\dashv$ | $\dashv$ | F |                | 131        |   |          | -        | $\vdash$ |          |              | $\dashv$      | _             | $\vdash$       |
|          | 32       |                                     | <del>                                     </del> | 1  | T  | $\vdash$           |              | T            | П        | ヿ        |          | 8        |                | _        |         | T  | _        | $\vdash$        | 一          | $\dashv$ | $\dashv$ | ┢ |                | 132        |   |          |          |          |          |              |               |               | $\vdash$       |
|          | 33       |                                     |  | T  | T  | $\vdash$           | <b>†</b>     | $\vdash$     | П        |          |          | 8        |                | 1        | 1       | 1  | -        |                 | 一          | _        | ┪        | ŀ |                | 133        |   | <u> </u> | ┢        |          |          | _            | $\dashv$      |               | $\vdash$       |
|          | 34       |                                     |  | Ī  | İ  | T                  | T            | Π            | П        |          |          | 8        |                | $\dashv$ | Ť       | T  |          |                 | 一          | 一        |          | Ì |                | 134        |   | Г        | Г        | Т        |          |              | $\dashv$      |               | г              |
|          | 35       |                                     |  |  |  | Ì                  |              |              | П        | $\neg$   |          | 8        |                | $\top$   | 1       |  |          |                 | $\neg$     | $\dashv$ | $\neg$   | T |                | 135        |   |          |          |          |          |              | 一             |               | Г              |
|          | 36       |                                     |  |  |  |                    |              |              |          |          |          | 8        | 3              | $\neg$   | 1       | 1  |          |                 | $\neg$     | 寸        | $\neg$   | Ī |                | 136        |   |          |          |          |          |              |               |               | Г              |
|          | 37       |                                     |  |  |  | L                  |              |              |          |          |          | 8        |                |          |         | T  | Γ        |                 | $\neg$     | 寸        |          | r |                | 137        |   |          |          |          |          |              | 一             | $\neg$        | Г              |
| Ľ.       | 38       |                                     |  | L  |  |                    |              |              |          | $\Box$   |          | 8        |                |          | T       | T  |          |                 | $\neg$     | _        | $\neg$   | Ī |                | 138        |   | П        | $\vdash$ | П        |          |              | $\neg$        |               | Г              |
|          | 39       |                                     |  |  |  |                    |              |              |          |          |          | 8        | <b>9</b>       |          | Τ       |  |          |                 |            |          |          | ľ |                | 139        |   |          | l        |          |          |              | ヿ             |               |                |
|          | 40       |                                     |  |  |  |                    | $\Box$       |              |          |          |          | 9        | <u> </u>       |          |         |  |          |                 |            | $\Box$   |          | Ī |                | 140        |   |          |          |          |          |              | $\neg$        |               | Γ              |
|          | 41       | Ĺ                                   |  |  |  |                    |              |              |          |          |          | 9        | 1              |          | I       |  |          |                 |            |          |          | Γ |                | 141        |   |          |          |          |          |              | $\neg$        |               | Г              |
|          | 42       |                                     |  |  |  |                    |              |              |          |          |          | 9        | 2              |          |         |  |          |                 |            |          |          | Γ |                | 142        |   |          |          |          |          |              | $\neg$        |               | Г              |
|          | 43       |                                     | L  |  |  | $oxedsymbol{oxed}$ |              |              |          |          |          | 9        | 3              |          | L       |  |          |                 | $\Box$     |          |          |   |                | 143        |   |          |          |          |          |              |               |               |                |
| <u> </u> | 44       |                                     |  |  | L  | $oxed{oxed}$       |              |              | Ш        | $\Box$   |          | 9        |                |          | $\perp$ |  |          |                 | $_{\perp}$ |          |          |   |                | 144        |   |          |          |          |          |              | $\Box$        |               |                |
| L        | 45       | _                                   | <u> </u>   |  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | L                  | _            | Ш            | Ш        |          |          | 9        | 5              |          |         |  |          |                 |            | $\Box$   |          |   |                | 145        |   |          |          |          |          |              | $\Box$        |               |                |
|          | 46       | <u> </u>                            | L_   | <u> </u>   |  |                    | ╚            | <u> </u>     | Ш        | $\Box$   |          | 9        |                |          |         | $oxed{\Box}$   |          |                 | ]          | $\Box$   | _]       |   |                | 146        |   |          |          |          |          |              |               |               |                |
| <u> </u> | 47       | L                                   | L  | _  | _  |                    | _            | <u> </u>     | Ш        | $\Box$   |          | 9        | 7              | $\Box$   | L       | $oxed{\Box}$   |          |                 | ]          |          |          |   |                | 147        |   |          |          |          |          |              |               |               |                |
| L        | 48       | _                                   | _  |  | <u> </u>   | <u> </u>           | L            | <u> </u>     | Щ        | _        |          | 9        |                |          | 1       | $oldsymbol{ol}}}}}}}}}}}}}}}}$ |          |                 |            | $\Box$   | $\Box$   |   |                | 148        |   |          |          |          |          |              |               |               |                |
| <u> </u> | 49       | <u> </u>                            | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u>           | <u> </u>     | _            | Ш        | _        | L.       | 9        | }              |          | _       | L  |          |                 |            |          |          |   |                | 149        |   |          |          |          |          |              | $\Box$        |               |                |
| Щ.       | 50       | L                                   |  | Щ  | <u></u>  | L                  | <u> </u>     |              |          |          | L        | 10       | 0              |          |         | L  | Ш        |                 |            |          |          | Ĺ | I              | 150        |   |          |          |          |          |              |               |               |                |